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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,624	02/05/2004	Bernardus Maria Geertshuis	TH-2284 (US) COM:KNL	4911
23632	7590	04/07/2006	EXAMINER	
SHELL OIL COMPANY				GANEY, STEVEN J
P O BOX 2463				PAPER NUMBER
HOUSTON, TX 772522463				3752

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/772,624	GEERTSHUIS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Steven J. Ganey	3752	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 20 January 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1 and 3-9 is/are rejected.  
 7) Claim(s) 2 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input checked="" type="checkbox"/> Other: <u>Drawing sheet</u> .        |

**DETAILED ACTION**

1. Receipt is acknowledged of the amendment filed on January 20, 2006, which has been fully considered in this action.

***Claim Objections***

2. Claim 1 is objected to because of the following informalities: In line 4, "the cylindrical circumference" should be --a cylindrical circumference-- to provide proper antecedent basis. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 3, 4 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kubiak.

Kubiak shows a protective shield for a nozzle comprising all the featured elements of the instant invention.

5. Claims 1, 3-6 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Clements.

Clements shows a protective shield for a nozzle comprising all the featured elements of the instant invention.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clements.

Clements discloses all the featured elements of the instant invention except for the specific angle range of the planes and the specific method step of performing visualization tests. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the angles of the planes claimed since such a modification would depend on the required angle to ensure that the spray emerging does not contact the shield. As to the method step of performing spray visualization tests, such tests are well known in the spraying art and would be normally be performed to determine the optimal shape of the opening of the shield in the apparatus of Clements.

***Allowable Subject Matter***

8. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

9. Applicant's arguments filed January 20, 2006 have been fully considered but they are not persuasive.

In response to applicant's arguments concerning Kubiak and Clements, that the inventive protective shield is "for use in an FCC unit", a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art.

In response to applicant's arguments that Kubiak does not completely surround the cylindrical circumference of the feed nozzle, note Figure 3 where it clearly shows the feed nozzle 19 has a cylindrical circumference 63 completely surrounded by the shield 20 at 62. As to applicant's argument that Kubiak does not have shield which includes an extension around an end of the feed nozzle to cover a portion of the dispensing end of the feed nozzle, note extension 41 having an open portion 30/33.

In response to applicant's arguments that Clements does not completely surround the cylindrical circumference of the feed nozzle, note Figure 2 where it clearly shows the feed nozzle 30/31 has a cylindrical circumference completely surrounded by the shield 10. As to applicant's argument that Clements does not have shield which includes an extension around an end of the feed nozzle to cover a portion of the dispensing end of the feed nozzle, note extension having an open portion 17 and flares 15/16. See attached drawing sheet with marked copy of FIG.2.

***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Ganey whose telephone number is (571) 272-4899. The examiner can normally be reached on Monday, Tuesday, Wednesday, and Thursday from 8:00 AM to 5:30 PM.

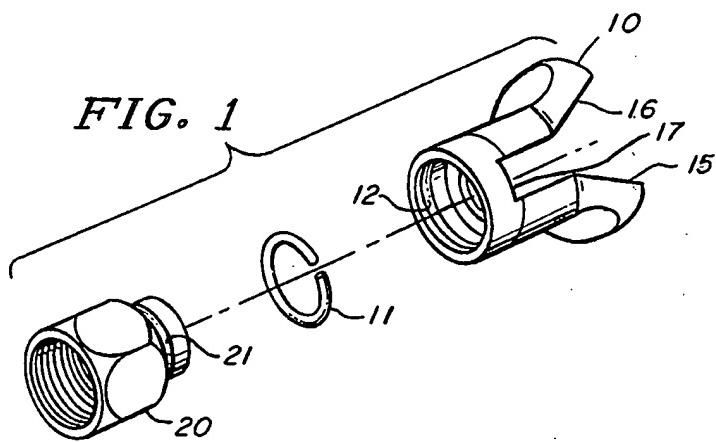
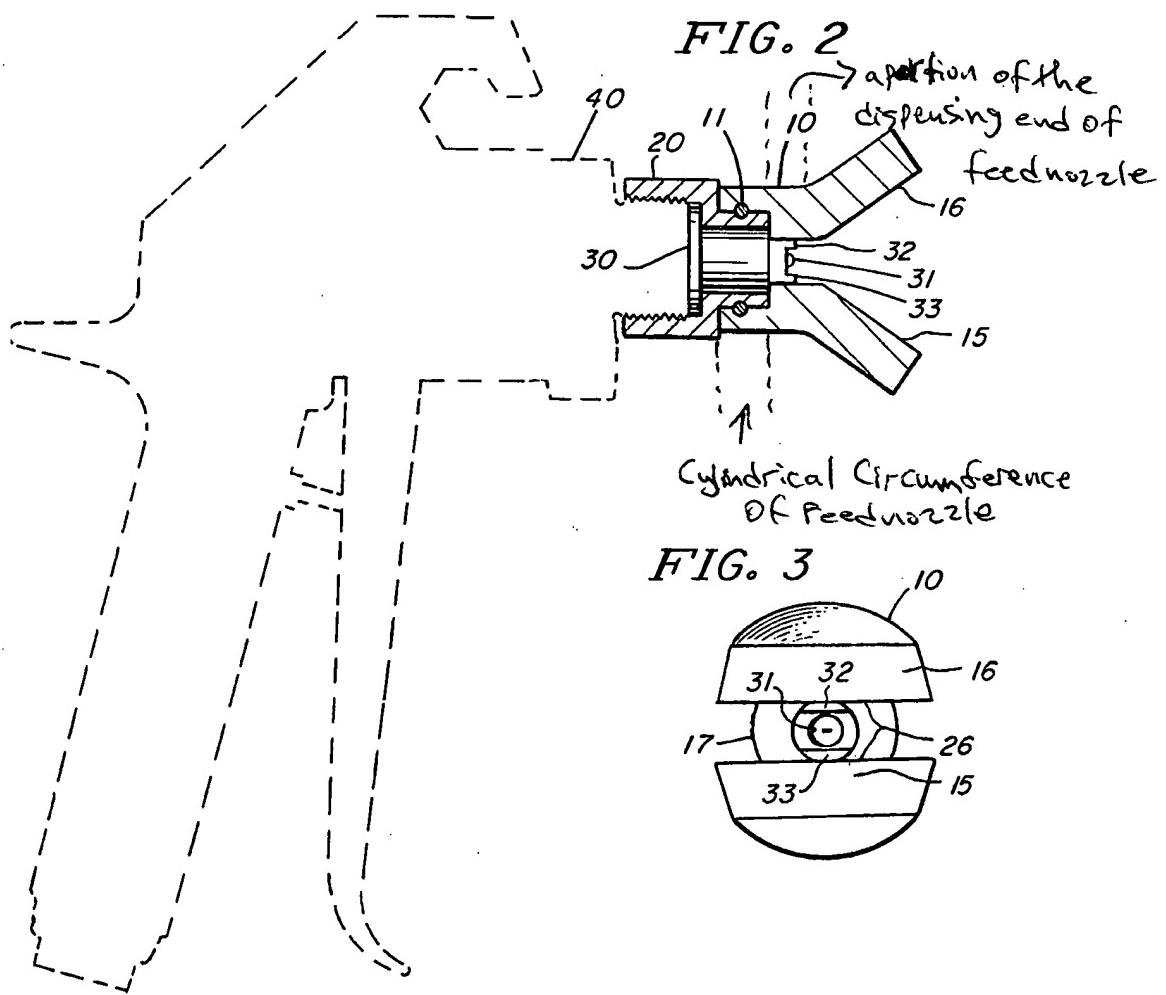
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel, can be reached on (571) 272-4919. The fax phone number for this Group is (571) 273-8300.

  
STEVEN J. GANEY  
PRIMARY EXAMINER

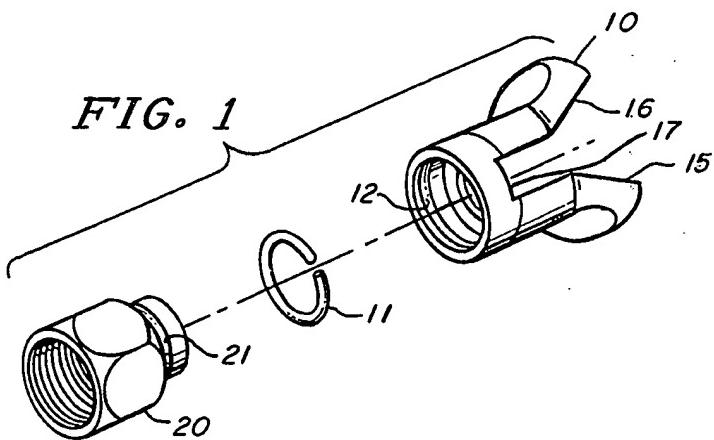
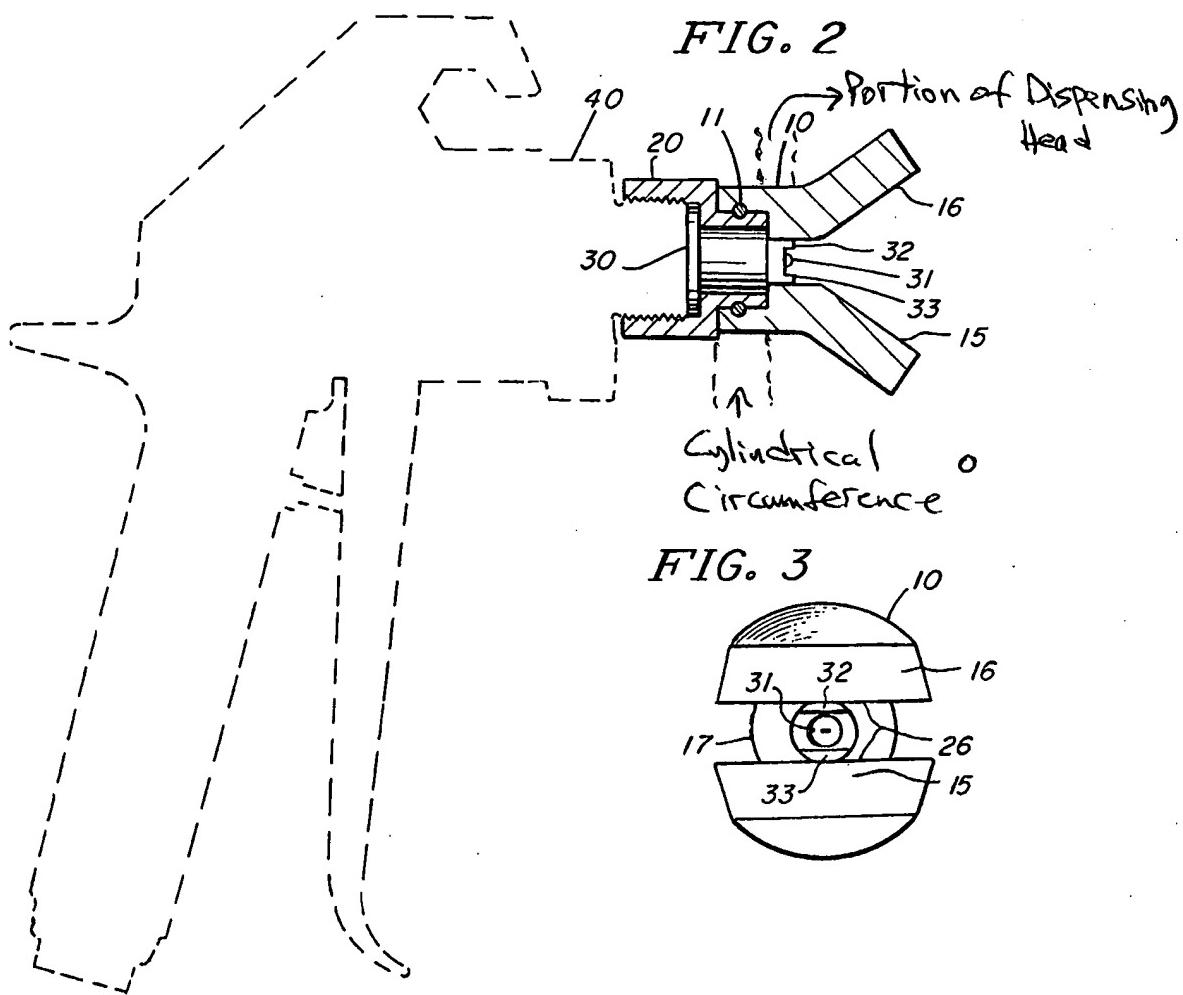
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